

Submitted to: Encana Oil & Gas (USA) Inc. Denver, Colorado Submitted by: AECOM Fort Collins, Colorado 60221849.600 February 2012

Pavillion Natural Gas Field, Fremont County, Wyoming, Encana Oil & Gas (USA) Inc.

2011 Pit Investigation Report – Tribal Pavillion 12-13



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2011 Pit Investigation Report – Tribal Pavillion 12-13

Prepared by Dawn S. Fairchild, Environmental Engineer

Reviewed by

Dustin Krajewski, P.E., Project Manager/Project Engineer

AECOM AA-1

List of Acronyms

AECOM Technical Services, Inc.

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and total xylenes

DRO diesel range organics

Encana Oil & Gas (USA) Inc.

ESC Environmental Science Corporation

GRO gasoline range organics

IME Inberg Miller Engineers

mg/kg milligrams per kilogram

PID photoionization detector

Ppm parts per million

SHWD Solid and Hazardous Waste Division
SVOC semi-volatile organic compounds
TPH total petroleum hydrocarbons

USEPA U.S. Environmental Protection Agency

WDEQ Wyoming Department of Environmental Quality
WOGCC Wyoming Oil and Gas Conservation Commission

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AECOM 1-1

1.0 Introduction

This investigation report has been prepared by AECOM Technical Services, Inc. (AECOM) on behalf of Encana Oil & Gas (USA) Inc. (Encana). The purpose of this report is to summarize the results of the site investigation activities performed at the Tribal Pavillion 12-13 (TP 12-13) pit location within the Pavillion Natural Gas Field east of the town of Pavillion, Fremont County, Wyoming (see **Figure 1-1** for a site location map). The work activities completed at the pit site were detailed in the August 18, 2011 *Draft Pavillion Natural Gas Field, Fremont County, Wyoming, Field Work Plan for Site Investigations – August and September 2011* (AECOM 2011) (work plan).

The TP 12-13 location was drilled in 1978 and plugged and abandoned in 2001. This location was never subject to environmental investigation. The site was identified by an area landowner in 2011 as an area of concern requiring a field investigation. This site was selected for pit investigation by the Pavillion Field Working Group, Pit subgroup. The August/September 2011 pit investigation was targeted toward an area adjacent to an irrigation ditch. The area is currently used for farming equipment storage. This area was identified as the approximate former pit location by the person whom had plowed the location several years ago and believed that he had encountered a pit. This report documents the investigation activities performed at the TP 12-13 pit location in accordance with the field work plan.



AECOM 2-1

2.0 Summary of Field Activities

The primary field activities conducted at TP 12-13 included: utility clearance; soil boring advancement and soil sampling; and final field surveying of all boreholes.

2.1 Ground Disturbance Activities

In accordance with Encana's Ground Disturbance Practice, all utilities within a 100 foot radius search area were marked. All utilities within 15 feet of a proposed ground disturbance location were positively identified using air and water excavation.

2.2 Soil Assessment

Four soil borings were advanced at the site using direct-push drilling technology following utility clearance. Soil borings SB-1-11 (TP 12-13) through SB-4-11 (TP 12-13) were advanced in the approximate location of the former pit (south of the irrigation canal) as shown on **Figure 2-1**. Drilling activities were performed by Inberg Miller Engineers (IME) of Riverton, Wyoming on August 31, 2011. Each soil boring was logged by a field geologist. Photoionization detector (PID) headspace readings were collected and recorded at every 2-foot interval. No additional soil borings were necessary based on lack of visual observations of impacts and PID readings less than 100 parts per million (ppm). The soil boring logs are provided in **Appendix A**.

The soil borings ranged from depths of 8 to 10.5 feet below ground surface (bgs). These depths were just below the water table which was encountered at a range of approximately 7 to 9.5 feet bgs. Since the potential for groundwater impacts was not identified based on field screening and observations, the soil borings were not extended any deeper and monitoring wells were not constructed.

One soil sample was collected from each boring from the interval immediately above the water table. All soil samples were collected for analysis of total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO), as required by WOGCC. Although none of the soil borings exhibited evidence of soil impact based on field screening and observations, one sample also was selected for analysis of benzene, toluene, ethylbenzene, and total xylene (BTEX) and semi-volatile organic compounds (SVOC). The sampling and analysis conducted on each boring is provided below:

SB-1-11 (TP 12-13) – One sample was collected for TPH, BTEX, and SVOC analyses;

SB-2-11 (TP 12-13) - One sample was collected for TPH analysis;

SB-3-11 (TP 12-13) - One sample was collected for TPH analysis; and

SB -4-11 (TP 12-13) – One sample was collected for TPH analysis.

All soil samples were submitted to Environmental Science Corporation (ESC) of Mt. Juliet, Tennessee, for laboratory analysis. Analysis of TPH-GRO and DRO was completed using (U.S. Environmental Protection Agency (USEPA) Method 8015. Analysis of BTEX was completed using USEPA Method 8260B. Analysis of SVOC was completed using USEPA Method 8070C. A discussion of analytical results is provided in Section 3.1.

All soil borings were surveyed and are shown on **Figure 2-1**. All soil borings were abandoned with hydrated bentonite chips.

AECOM 3-1

3.0 Analytical Sample Summary

3.1 Soil Sample Results

All soil samples were submitted for analysis of TPH-GRO and DRO. One sample was also analyzed for BTEX and SVOC. Soil sample TPH results were compared to the TPH cleanup level of 1,000 milligrams per kilogram (mg/kg). This concentration represents the most stringent cleanup level identified by the Wyoming Oil and Gas Conservation Commission (WOGCC) "Guideline for Closure of Unlined Production Pits". Concentrations of BTEX and SVOC from all soil samples were compared to the residential soil cleanup level and the migration to groundwater cleanup level, both based on the Wyoming Department of Environmental Quality/Solid and Hazardous Waste Division (DEQ/SHWD) cleanup level spreadsheet effective June 30, 2009. Analytical soil sample results are summarized in Table 3-1 and are shown on Figure 3-1. A copy of the laboratory report is provided in Appendix C.

Concentrations of TPH-GRO, TPH-DRO, BTEX, and SVOC were not detected in any of the soil samples collected at the site.



AECOM 4-1

4.0 Discussion

Analytical results at the site indicate that constituents of concern were not detected at the site. No further investigation is recommended at site TP 12-13.

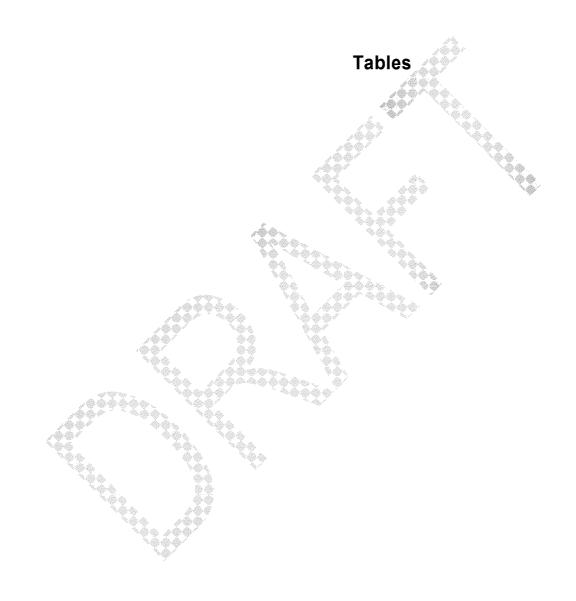


AECOM 5-1

5.0 References

AECOM. 2011. Pavillion Natural Gas Field, Fremont County, Wyoming, Encana Oil and Gas (USA) Inc., Field Work Plan for Site Investigations – August and September 2011. August 2011.





Draft - Table 1 - Soil Sample Analytical Results, August 31, 2011 Tribal Pavillion 12-13, Pavillion Natural Gas Field, Wyoming

Sample Name					SB-1-11 ¹	SB-2-11	SB-3-11	SB-4-11
Sample Depth (feet)					6-8	7-8	9-10	9.5-10.5
Sample Date					8/31/2011	8/31/2011	8/31/2011	8/31/2011
Analyte	Units	Method	Residential Soil Cleanup Levels (mg/kg) ³	Migration to Groundwater Cleanup Levels (mg/kg) ³		Re	esults	
TPH (GC/FID) Low Fraction	mg/kg	GRO	, , , , , , , , , , , , , , , , , , ,	, , ,	< 0.50	< 0.50	< 0.50	< 0.50
TPH (GC/FID) High Fraction (DRO Wyoming C10-C32)	mg/kg	8015	1,000 (0	Combined) ²	< 4.0	< 4.0	< 4.0	< 4.0
Benzene	mg/kg	8260B	1.1	0.00023	< 0.0050			
Toluene	mg/kg	8260B	5,000	1.7	< 0.025			
Ethylbenzene	mg/kg	8260B	5.7	0.0019	< 0.0050			
Total Xylenes	mg/kg	8260B	600	0.23	< 0.015			
Semi-Volatile Organic Compounds (SVOC)	mg/kg	8270C	Note ³	Note ³	Not Detected ¹			

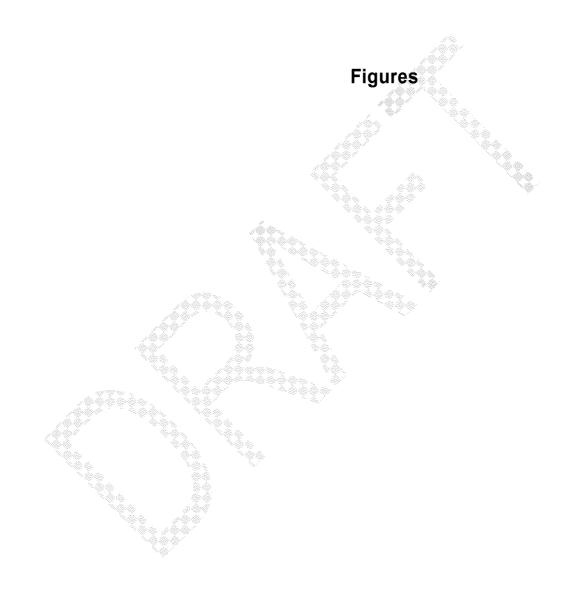
Notes:

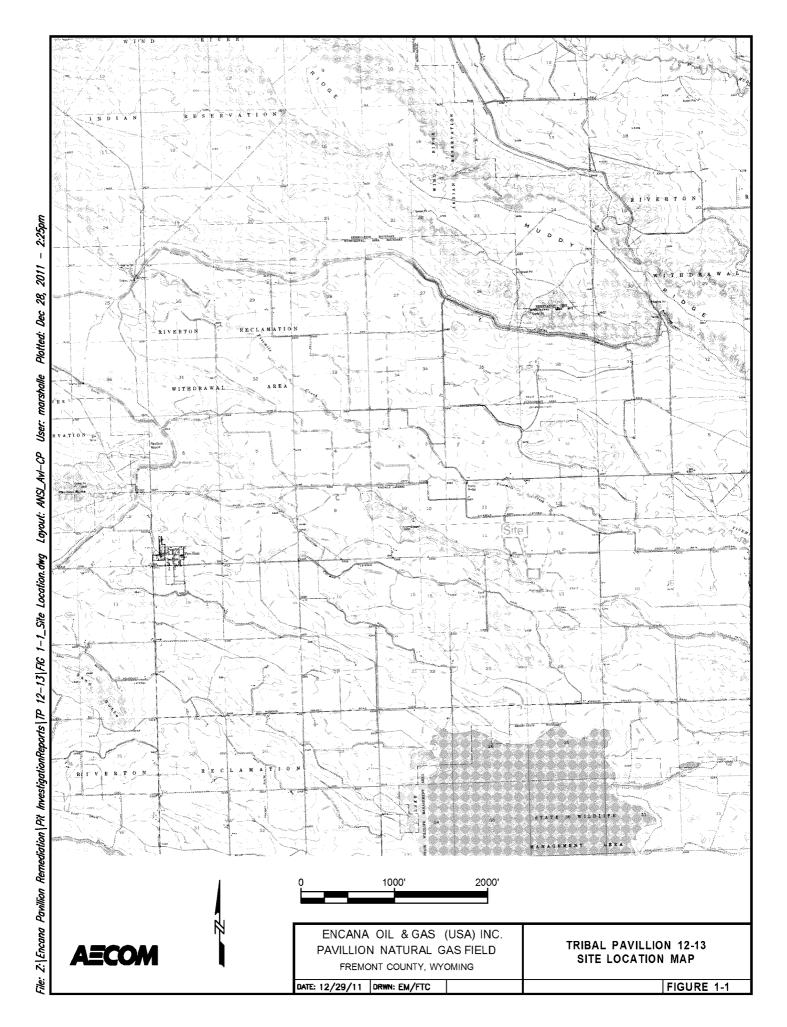
⁻⁻⁼ not analyze; <= sample result is less than the laboratory detection limit; DRO = diesel range organics; FID = flame ionization detector; GC = gas chromatograph; GRO = gasoline range organics; mg/kg = milligrams per kilogram; NA = not available; TPH = total petroleum hydrocarbons

¹ Sample SB-1-11 6-8 was analyzed for SVOCs using method 8270C. All SVOCs were below detection limits (see corresponding laboratory report).

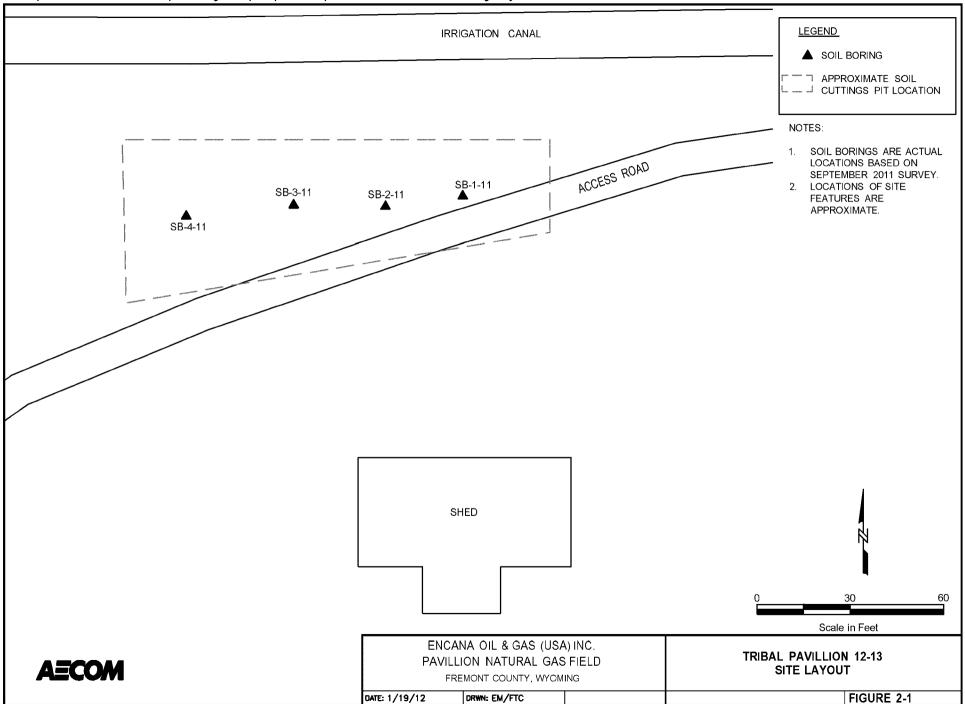
² The TPH cleanup level of 1,000 mg/kg is based on the most stringent cleanup level identified in the Wyoming Oil and Gas Conservation Commission "Guideline for Closure of Unlined Production Pits". If TPH is detected at a level greater than 1,000 mg/kg then the appropriate cleanup level will be determined based on the Oil Contaminated Soil Remediation Ranking System (OCSRRS).

³ Soil cleanup levels are based on the Wyoming Department of Environmental Quality/Solid and Hazardous Waste Division (DEQ/SHWD) cleanup level spreadsheet effective June 30, 2009.

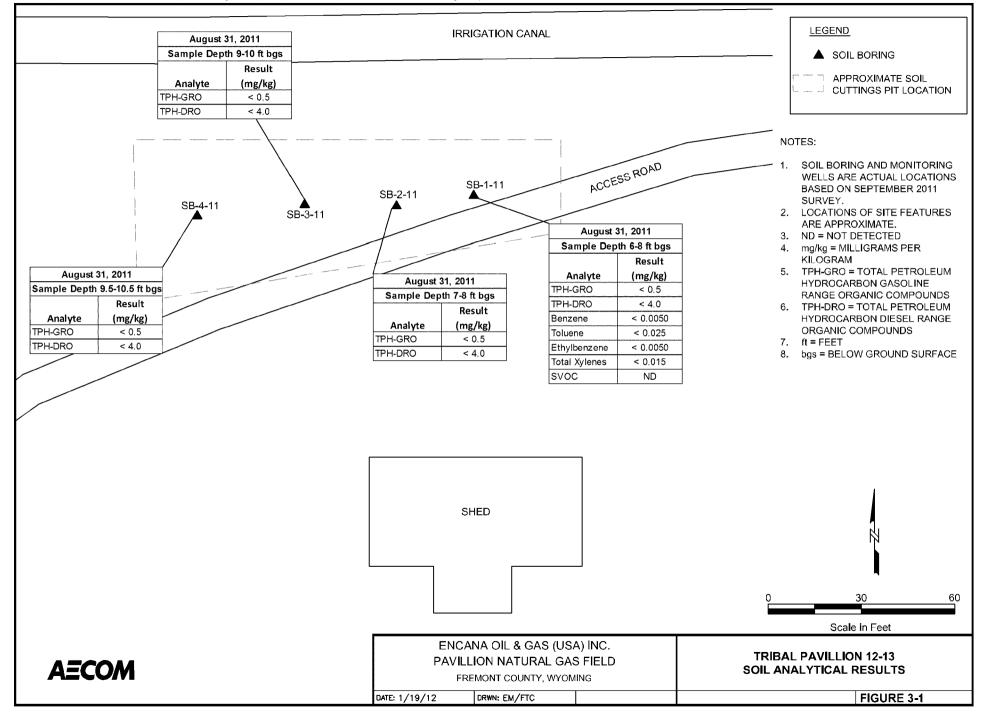




File: Z:\Encana Pavillion Remediation\Pit InvestigationReports\TP 12-13\FIG 2-1_TP 12-13 SITE LAYOUT.dwg Layout: TP 12-13 User: marshalle Plotted: Jan 19, 2012 - 10:56am Xref's:



File: Z:\Encana Pavillian Remediation\Pit InvestigationReports\Tir 12-13\FIG 3-1_TP 12-13 SS.dwg Layout: TP 12-13 User: marshalle Plotted: Jan 19, 2012 - 11:00am Xref's:



Appendix A Soil Boring Logs

						as (USA) Inc.		BORING ID:		
A	EC (NAC	Site Loc	Number:	Pavillio			SB-1-11 (FP-12-13\	
		JIVI	Coordin		TBD	Elevation:	TBD	Sheet: 1 of 1	117-12-13)	
						be Direct Push	TDD	Monitoring Well In	stalled:	No
			Sample			Boring Diamete	er: 2-inch	Screened Interval:	N	
Drilling	Contractor:	Inberg-Mille						Depth of Boring:	8	
								Water Level:	7 to 8	ft
Depth (ft)	Sample Type	Blows per 6"	Recovery (%)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN moisture content, structure, angular Geologic Unit	ity, maximum grain s	nor component(s), size, odor, and	Lab Sample ID	Lab Sample Depth (ft)
1 2 3 4	DP		50%	0.0	ML	Light brown silt with minor clay, DRY no odor. 1	no staining, few organics	near surface.	14:20 TPH, SVOC,	6-8
5 6 7 8	DP		75%	0.0	SP	Clayey silt to 6 ft. Fine grained sand, yellow orange color no odor. r Well sorted, homogeneous	no staining, moist to wet a	at 7 to 8 ft.	SB-1-11(TP-12-13)/6-8) 14:20 TPH, SVOC, BTEX	
9						Total Dep	h=8 ft			
DP= direct Boring ab NA = not	et Push, 4 foot andoned with applicable	d for Geoprobe acetate sleeve bentonite chip	os		Date: 1	TBD = ft = fe bgs =	parts per million to be determined et below ground surface			

						as (USA) Inc.	BORING ID:		
Λ		NAC	Project . Site Loc		602213 Pavillio		SD 2.11.7	TD 12 12\	
H	ECC	JIVI	Coordin		TBD	Elevation: TBD	Sheet: 1 of 1	11-12-13)	
						be Direct Push	Monitoring Well In:	stalled:	No
			Sample			Boring Diameter: 2-inch	Screened Interval:	N	
Drilling	Contractor:	Inberg-Miller				Logged By: J.Hurshman Date/Time Started: 8/31/11 13:50	Depth of Boring:	10	
						Ground Elevation: TBD Date/Time Finished: 8/31/11 14:10	Water Level:	7 to 8	ft
Depth (ff)	Sample Type	Blows per 6"	Recovery (%)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, mi moisture content, structure, angularity, maximum grain Geologic Unit (If Known)		Lab Sample ID	Lab Sample Depth (ft)
23	DP		75	0.0		Tightly packed silt with clay, dark brown DRY, no odor, no staining, hor	nogeneous.		
567	DP		25	NA	ML	Continued as above to 7.5 ft Increasing Clay content.		. 14:05 TPH	
89	DP		75	0.0	SP	Sand, fine grained tan with orange oxidation, moist, well sorted homogono odor, no staining. Continued sand to 10 ft.	neous,	SB-2-11 (TP-12-13)(7-8) - 14:05 TPH	7-8
10						Total Depth = 10 ft		S	
DP= direc Boring ab: NA = not	t Push, 4 foot a andoned with b applicable	for Geoprobe acetate sleeve pentonite chips			Date: 11	ppm = parts per million TBD = to be determined ft = feet bgs = below ground surface			

						as (USA) Inc. BORING ID:		
A		244	Project N			349		
A		JN	Site Loca		Pavillion		P-12-13)	
			Coordina		TBD	Elevation: TBD Sheet: 1 of 1 be Direct Push Monitoring Well Ins	tallad:	No
			Sample T			Boring Diameter: 2-inch Screened Interval:	NA	
Drilling	Contractor:	Inberg-Miller			-	Logged By: J.Hurshman Date/Time Started: 8/31/11 13:30 Depth of Boring:	10	
						Ground Elevation: TBD Date/Time Finished: 8/31/11 13:50 Water Level:	9 ft	
Depth (ft)	Sample Type	Blows per 6"	Recovery (%)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (ft)
1 2 3 4	DP		75	0.0	SM	Silt with minor sand and clay, very hard, DRY, no odor, no staining, moderate sorting, brown, very little color variation.		
567	DP		25	NA 0.0	SC	Continued as above to 8 ft. Increasing clay content.	SB-3-11(TP-12-13) (9-10) - 13:45 TPH	
89	ЮP		50	NA 0.0		Clay, brown, moist, hard to 9 ft Sand at 9 ft, tan with orange oxidation zones, fine grained, homogeneous tight packed, well	SB-3-11(TP-12-	9-10
10						Sorted, WET, no odor, no staining. Total Depth = 10 ft Refusal with geoprobe at 10 ft		
DP= direct Boring at		for Geoprobe lacetate sleeve bentonite chips	Rig			<pre>ppm = parts per million TBD = to be determined ft = feet bgs = below ground surface</pre>		

Checked by: Jeremy Hurshman

Date: 11/28/11

				as (USA) Inc. BORING ID:		
A = COAA	Project I			849		
AECOM	Site Loca		Pavillio		(TP-12-13)	
	Coordina		TBD	Elevation: TBD Sheet: 1 of 1	. 11 1	
	Drilling Sample :			be Direct Push Boring Diameter: 2-inch Screened Interval:		No IA
Drilling Contractor: Inberg-Miller			3011	Boring Diameter: 2-inch Screened Interval: Logged By: J.Hurshman Date/Time Started: 8/31/11 13:00 Depth of Boring:		.5 ft
Druing Comracior. Interg-winer	Liigineei	3		Ground Elevation: TBD Date/Time Finished: 8/31/11 13:30 Water Level:	9.5 f	
Depth (ff) Sample Type Blows per 6"	Recovery (%)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (ft)
1	75	NA 0.0	ML	Brown. silt, dry. homogeneous, no sand, little dry, no odor. no staining.		
5	50	NA 0.0		Continued silt to 7 ft. Silty clay, dark brown, no odor, no staining, white veins in clay, dry, slight plasticity, hard clay to 9.5 ft.	2)	
9 DP	50	0.0	CL SP	Wet Sand, medium to fine grained, all fine sand at 10 ft. Light brown no odor no staining, orange oxidation lines in sand refusal at 10.5 ft. sand at 10 to 10.5 ft.	SB-4-11(TP-113) (9.5-10.5) TPH 13:25	9.5-10.5
11				Total Depth = 10.5 ft	SB-4-1	
NOTES: Blow count not recorded for Geoprobe F DP= direct Push, 4 foot acetate sleeve Boring abandoned with bentonite chips NA = not applicable Checked by: Jeremy Hurshm			Date: 11	ppm = parts per million TBD = to be determined ft = feet bgs = below ground surface		

Appendix B Laboratory Analytical Report



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Dustin Krajewski AECOM Inc. - Fort Collins, CO 1601 Prospect Parkway Fort Collins, CO 80525

Report Summary

Tuesday September 13, 2011

Report Number: L533941

Samples Received: 09/01/11

Client Project: 60221849

Description: EnCana Pavillion

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Leslie Newton , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A, TX - T104704245, OK-9915

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Dustin Krajewski AECOM Inc. - Fort Collins, CO 1601 Prospect Parkway Fort Collins, CO 80525

September 13, 2011

ESC Sample # : L533941-06

Date Received : September 01, 2011 Description : EnCana Pavillion

Site ID : PAVILLION WY

Sample ID : SB-1-11CTP-12-13 6-8 FT

Project #: 60221849

Collected By : Jeremy Hurshman Collection Date : 08/31/11 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/04/11	5
Surrogate Recovery-%					/ /	_
a,a,a-Trifluorotoluene(FID)	92.6		% Rec.	GRO	09/04/11	5
Benzene	BDL	0.0050	mg/kg	8260B	09/03/11	5
Toluene	BDL	0.025	mg/kg	8260B	09/03/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/03/11	5
Total Xylenes	BDL	0.015	mg/kg	8260B	09/03/11	5
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	09/03/11	5
Dibromofluoromethane	112.		% Rec.	8260B	09/03/11	5
a,a,a-Trifluorotoluene	118.		% Rec.	8260B	09/03/11	5
4-Bromofluorobenzene	108.		% Rec.	8260B	09/03/11	5
DRO Wyoming C10-C32						
TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	4.0	mg/kg	8015	09/07/11	1
o-Terphenyl	74.8		% Rec.	8015	09/07/11	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.033	mg/kg	8270C	09/04/11	1
Acenaphthylene	BDL	0.033	mg/kg	8270C	09/04/11	1
Anthracene	BDL	0.033	mg/kg	8270C	09/04/11	ī
Benzidine	BDL	0.33	ma/ka	8270C	09/04/11	1
Benzo(a)anthracene	BDL	0.033	mg/kg	8270C	09/04/11	i
Benzo(b) fluoranthene	BDL	0.033	mg/kg	8270C	09/04/11	ī
Benzo(k) fluoranthene	BDL	0.033	mg/kg	8270C	09/04/11	1
Benzo(g,h,i)perylene	BDL	0.033	mg/kg	8270C	09/04/11	1
Benzo(a) pyrene	BDL	0.033	mg/kg	8270C	09/04/11	ī
Bis(2-chlorethoxy)methane	BDL	0.33	mg/kg	8270C	09/04/11	$\dot{\overline{1}}$
Bis(2-chloroethyl)ether	BDL	0.33	mg/kg	8270C	09/04/11	1
Bis(2-chloroisopropyl)ether	BDL	0.33	mg/kg	8270C	09/04/11	ī
4-Bromophenyl-phenylether	BDL	0.33	mg/kg	8270C	09/04/11	ī
2-Chloronaphthalene	BDL	0.033	mg/kg	8270C	09/04/11	ī
4-Chlorophenyl-phenylether	BDL	0.33	ma/ka	8270C	09/04/11	1
Chrysene	BDL	0.033	mg/kg	8270C	09/04/11	1
Dibenz(a,h)anthracene	BDL	0.033	mg/kg	8270C	09/04/11	1
3,3-Dichlorobenzidine	BDL	0.33	mg/kg	8270C	09/04/11	1
2,4-Dinitrotoluene	BDL	0.33	mg/kg	8270C	09/04/11	1
2,6-Dinitrotoluene	BDL	0.33	mg/kg	8270C	09/04/11	1
Fluoranthene	BDL	0.033	mg/kg	8270C	09/04/11	1
Fluorene	BDL	0.033	mg/kg	8270C	09/04/11	1
Hexachlorobenzene	BDL	0.33	mg/kg	8270C	09/04/11	i
Hexachloro-1,3-butadiene	BDL	0.33	mg/kg	8270C	09/04/11	1
nondonitoro 1,5 bucadrene	חלום	V.33	TIICL\ VCI	02700	05/04/11	_

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Dustin Krajewski AECOM Inc. - Fort Collins, CO 1601 Prospect Parkway Fort Collins, CO 80525

ESC Sample # : L533941-06

September 13, 2011

Date Received : September 01, 2011
Description : EnCana Pavillion

Site ID : PAVILLION WY Sample ID SB-1-11CTP-12-13 6-8 FT Project #: 60221849

Collected By : Jeremy Hurshman Collection Date : 08/31/11 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachlorocyclopentadiene	BDL	0.33	mg/kg	8270C	09/04/11	1
Hexachloroethane	BDL	0.33	mg/kg	8270C	09/04/11	ī
Indeno(1,2,3-cd)pyrene	BDL	0.033	mg/kg	8270C	09/04/11	ī
Isophorone	BDL	0.33	mg/kg	8270C	09/04/11	1
Naphthalene	BDL	0.033	mg/kg	8270C	09/04/11	ī
Nitrobenzene	BDL	0.33	mg/kg	8270C	09/04/11	1
n-Nitrosodimethylamine	BDL	0.33	mg/kg	8270C	09/04/11	1
n-Nitrosodiphenylamine	BDL	0.33	mq/kq	8270C	09/04/11	1
n-Nitrosodi-n-propylamine	BDL	0.33	mg/kg	8270C	09/04/11	1
Phenanthrene	BDL	0.033	mg/kg	8270C	09/04/11	1
Benzylbutyl phthalate	BDL	0.33	mg/kg	8270C	09/04/11	ī
Bis(2-ethylhexyl)phthalate	BDL	0.33	mg/kg	8270C	09/04/11	i 1
Di-n-butyl phthalate	BDL	0.33	mg/kg	8270C	09/04/11	1
Diethyl phthalate	BDL	0.33	mg/kg	8270C	09/04/11	1
Dimethyl phthalate	BDL	0.33	mg/kg	8270C	09/04/11	1
Di-n-octyl phthalate	BDL	0.33	mg/kg	8270C	09/04/11	1
Pyrene	BDL	0.033	mg/kg	8270C	09/04/11	1
1,2,4-Trichlorobenzene	BDL	0.33	mg/kg	8270C	09/04/11	1
Acid Extractables	DDB	0.33	mg/ Kg	02700	03/04/11	т.
4-Chloro-3-methylphenol	BDL	0.33	ma/ka	8270C	09/04/11	1
2-Chlorophenol	BDL	0.33	ma/ka	8270C	09/04/11	1
2,4-Dichlorophenol	BDL	0.33	mg/kg	8270C	09/04/11	1
2,4-Dimethylphenol	BDL	0.33	mg/kg	8270C	09/04/11	1
4,6-Dinitro-2-methylphenol	BDL	0.33	ma/ka	8270C	09/04/11	1
2,4-Dinitrophenol	BDL	0.33	mg/kg	8270C	09/04/11	1
2-Nitrophenol	BDL	0.33	mg/kg	8270C	09/04/11	1
4-Nitrophenol	BDL	0.33	mg/kg	8270C	09/04/11	1
Pentachlorophenol	BDL	0.33	mg/kg	8270C	09/04/11	1
Phenol	BDL	0.33	mg/kg	8270C	09/04/11	1
2,4,6-Trichlorophenol	BDL	0.33	mg/kg	8270C 8270C	09/04/11	1
Surrogate Recovery	DDF	0.33	mg/ kg	02700	09/04/11	T
2-Fluorophenol	85.4		% Rec.	8270C	09/04/11	1
Phenol-d5	96.2		% Rec.	8270C 8270C	09/04/11	1
Nitrobenzene-d5	81.6		% Rec.	8270C 8270C	09/04/11	1
2-Fluorobiphenvl	98.2		% Rec.	8270C	09/04/11	1
2,4,6-Tribromophenol	120.		% Rec.	8270C 8270C	09/04/11	1
p-Terphenyl-d14	102.			8270C	09/04/11	1
b-rerbuenAr-ara	10∠.		% Rec.	82700	03/04/11	T

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

The reported analytical results relate only to the sample submitted.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Dustin Krajewski AECOM Inc. - Fort Collins, CO 1601 Prospect Parkway Fort Collins, CO 80525

September 13, 2011

ESC Sample #: L533941-07

Date Received : September 01, 2011 Description : EnCana Pavillion

Site ID : PAVILLION WY

Sample ID SB-2-11CTP-12-13 7-8 FT

Project #: 60221849

Collected By : Jeremy Hurshman Collection Date : 08/31/11 14:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction Surrogate Recovery-%	BDL	0.50	mg/kg	GRO	09/04/11	5
a,a,a-Trifluorotoluene(FID)	92.6		% Rec.	GRO	09/04/11	5
DRO Wyoming C10-C32 TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	4.0	mg/kg	8015	09/08/11	1
o-Terphenyl	73.6		% Rec.	8015	09/08/11	1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Dustin Krajewski AECOM Inc. - Fort Collins, CO 1601 Prospect Parkway Fort Collins, CO 80525

September 13, 2011

ESC Sample #: L533941-08

Date Received : September 01, 2011 Description : EnCana Pavillion

SB-3-11CTP-12-13 9-10 FT Sample ID

Site ID : PAVILLION WY Project #: 60221849

Collected By : Jeremy Hurshman Collection Date : 08/31/11 13:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction Surrogate Recovery-%	BDL	0.50	mg/kg	GRO	09/04/11	5
a,a,a-Trifluorotoluene(FID)	96.5		% Rec.	GRO	09/04/11	5
DRO Wyoming C10-C32 TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	4.0	mg/kg	8015	09/08/11	1
o-Terphenyl	72.6		% Rec.	8015	09/08/11	1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Dustin Krajewski AECOM Inc. - Fort Collins, CO 1601 Prospect Parkway Fort Collins, CO 80525

September 13, 2011

ESC Sample # : L533941-09

Date Received : September 01, 2011 Description : EnCana Pavillion

Site ID : PAVILLION WY Sample ID SB-4-11CTP-12-13 9.5-10.5 FT

Project #: 60221849

Collected By : Jeremy Hurshman Collection Date : 08/31/11 13:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction Surrogate Recovery-%	BDL	0.50	mg/kg	GRO	09/04/11	5
a,a,a-Trifluorotoluene(FID)	96.5		% Rec.	GRO	09/04/11	5
DRO Wyoming C10-C32 TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	4.0	mg/kg	8015	09/08/11	1
o-Terphenyl	76.8		% Rec.	8015	09/08/11	1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Dustin Krajewski AECOM Inc. - Fort Collins, CO 1601 Prospect Parkway Fort Collins, CO 80525

Site ID : PAVILLION WY

Project #: 60221849

September 13, 2011

ESC Sample # : L533941-10

Date Received : September 01, 2011
Description : EnCana Pavillion

Sample ID TRIP BLANK

Collected By : Jeremy Hurshman Collection Date : 08/31/11 08:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	09/02/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/02/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/02/11	1
Total Xylenes	BDL	0.0030	mg/1	8260B	09/02/11	1
Surrogate Recovery			_			
Toluene-d8	105.		% Rec.	8260B	09/02/11	1
Dibromofluoromethane	104.		% Rec.	8260B	09/02/11	1
a,a,a-Trifluorotoluene	107.		% Rec.	8260B	09/02/11	1
4-Bromofluorobenzene	114.		% Rec.	8260B	09/02/11	1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L533941-04	WG553588 WG553368	SAMP SAMP	Isophorone a,a,a-Trifluorotoluene	R1845992 R1850352	Ј4 J1
L533941-06	WG553867 WG553588	SAMP SAMP	o-Terphenyl Isophorone	R1847632 R1845992	J7 J4

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J4	The associated batch QC was outside the established quality control range for accuracy.
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Summary of Remarks For Samples Printed 09/13/11 at 12:49:07

TSR Signing Reports: 044 R5 - Desired TAT

Always run BTEX by 8260 unless noted otherwise. ln 9/2/11

Sample:	L533941-01	Account:	ENSRFCCO	Received:	09/01/11	09:00	Due	Date:	09/09/11	00:00	RPT	Date:	09/13/11	12:47
Sample:	L533941-02	Account:	ENSRFCCO	Received:	09/01/11	09:00	Due	Date:	09/09/11	00:00	RPT	Date:	09/13/11	12:47
Sample:	L533941-03	Account:	ENSRFCCO	Received:	09/01/11	09:00	Due	Date:	09/09/11	00:00	RPT	Date:	09/13/11	12:47
Sample:	L533941-04	Account:	ENSRFCCO	Received:	09/01/11	09:00	Due	Date:	09/09/11	00:00	RPT	Date:	09/13/11	12:47
Sample:	L533941-05	Account:	ENSRFCCO	Received:	09/01/11	09:00	Due	Date:	09/09/11	00:00	RPT	Date:	09/13/11	12:47
Sample:	L533941-06	Account:	ENSRFCCO	Received:	09/01/11	09:00	Due	Date:	09/09/11	00:00	RPT	Date:	09/13/11	12:47
Sample:	L533941-07	Account:	ENSRFCCO	Received:	09/01/11	09:00	Due	Date:	09/09/11	00:00	RPT	Date:	09/13/11	12:47
Sample:	L533941-08	Account:	ENSRFCCO	Received:	09/01/11	09:00	Due	Date:	09/09/11	00:00	RPT	Date:	09/13/11	12:47
Sample:	L533941-09	Account:	ENSRFCCO	Received:	09/01/11	09:00	Due	Date:	09/09/11	00:00	RPT	Date:	09/13/11	12:47
Sample:	L533941-10	Account:	ENSRFCCO	Received:	09/01/11	09:00	Due	Date:	09/09/11	00:00	RPT	Date:	09/13/11	12:47



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Fort Collins, CO 80525

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L533941

September 13, 2011

		7 25 1 1 2 4 1 1	pre-t		
Analyte	Result	Laborator Units	r biank % Rec	Limit	Batch Date Analyzed
Benzene	< .001	mg/l			WG553386 09/02/11 00:3
Ethylbenzene	< .001 < .005	mg/l			WG553386 09/02/11 00:3
Toluene	< .005	mg/l	a nga ayar nga ra	nga ngar mga sagar ngar ngar ngar	WG553386 09/02/11 00:3 WG553386 09/02/11 00:3
Total Xylenes 4-Bromofluorobenzene	\$.003	mg/l % Rec.	113.6	75-128	WG553386 09/02/11 00:3
Dibromofluoromethane		% Rec.	105.5	79-125	WG553386 09/02/11 00:3
Toluene-d8		% Rec.	103.0	87-114	WG553386 09/02/11 00:3
a,a,a-Trifluorotoluene		% Rec.	104.7	84-114	WG553386 09/02/11 00:3
TPH (GC/FID) Low Fraction	< .1	mg/kg	97.74	50 120	WG553660 09/04/11 15:3
a,a,a-Trifluorotoluene(FID)		% Rec.	97.74	59-128	WG553660 09/04/11 15:3
1,2,4-Trichlorobenzene	₹ .333	mq/kg			WG553588 09/04/11 09:0
2,4,6-Trichlorophenol	< .333	mg/kg			WG553588 09/04/11 09:0
2,4-Dichlorophenol	< .333	mg/kg			WG553588 09/04/11 09:0
2,4-Dimethylphenol	< .333	mg/kg			WG553588 09/04/11 09:0
2,4-Dinitrophenol	< .333	mg/kg			WG553588 09/04/11 09:0
2,4-Dinitrotoluene	< .333	mg/kg			WG553588 09/04/11 09:0
2,6-Dinitrotoluene	< .333	mg/kg			WG553588 09/04/11 09:0
2-Chloronaphthalene	< .033	mg/kg			WG553588 09/04/11 09:0
2-Chlorophenol	< .333	mg/kg		est tablet specification balls (see the section)	WG553588 09/04/11 09:0 WG553588 09/04/11 09:0
2-Nitrophenol 3,3-Dichlorobenzidine	< .333 < .333	mg/kg mg/ka			WG553588 09/04/11 09:0 WG553588 09/04/11 09:0
4,6-Dinitro-2-methylphenol	< .333	mg/kg			WG553588 09/04/11 09:0
4-Bromophenyl-phenylether	< .333	mg/kg			WG553588 09/04/11 09:0
4-Chloro-3-methylphenol	< .333	mq/kq			WG553588 09/04/11 09:0
4-Chlorophenyl-phenylether	< .333	mg/kg			WG553588 09/04/11 09:0
4-Nitrophenol	< .333	mg/kg			WG553588 09/04/11 09:0
Acenaphthene	< .033	mg/kg			WG553588 09/04/11 09:0
Acenaphthylene	< .033	mg/kg			WG553588 09/04/11 09:0
Anthracene	< .033	mg/kg			WG553588 09/04/11 09:0
Benzidine	< .333	mg/kg			WG553588 09/04/11 09:0
Benzo (a) anthracene	< .033	mg/kg		NOT THE POWER WAY TO SEE THE POWER WAY	WG553588 09/04/11 09:0
Benzo (a) pyrene	< .033	mg/kg			WG553588 09/04/11 09:0
Benzo(b) fluoranthene	< .033	mg/kg			WG553588 09/04/11 09:0
Benzo(g,h,i)perylene	< .033	mg/kg	er right ogen han h		WG553588 09/04/11 09:0
Benzo(k)fluoranthene	< .033	mg/kg			WG553588 09/04/11 09:0 WG553588 09/04/11 09:0
Benzylbutyl phthalate Bis(2-chlorethoxy)methane	< .333 < .333	mg/kg mg/kg			WG553588 09/04/11 09:0 WG553588 09/04/11 09:0
Bis(2-chloroethyl)ether	< .333	mg/kg			WG553588 09/04/11 09:0
Bis(2-chloroisopropyl)ether	< .333	mg/kg		en lan lan sen eta	WG553588 09/04/11 09:0
Bis(2-ethylhexyl)phthalate	< .333	mg/kg			WG553588 09/04/11 09:0
Chrysene	< .033	mq/kq			WG553588 09/04/11 09:0
Di-n-butyl phthalate	< .333	mq/kq			WG553588 09/04/11 09:0
Di-n-octyl phthalate	< .333	mg/kg			WG553588 09/04/11 09:0
Dibenz(a,h)anthracene	< .033	mg/kg			WG553588 09/04/11 09:0
Diethyl phthalate	< .333	mg/kg			WG553588 09/04/11 09:0
Dimethyl phthalate	< .333	mg/kg			WG553588 09/04/11 09:0
Fluoranthene	< .033	mg/kg			WG553588 09/04/11 09:0
Fluorene	< .033	mg/kg			WG553588 09/04/11 09:0
Hexachloro-1,3-butadiene	< .333	mg/kq			WG553588 09/04/11 09:0
Hexachlorobenzene	< .333	mg/kg			WG553588 09/04/11 09:0
Hexachlorocyclopentadiene	< .333	mg/kg			WG553588 09/04/11 09:0
Hexachloroethane	< .333	mg/kg			WG553588 09/04/11 09:0
Indeno(1,2,3-cd)pyrene Isophorone	< .033 < .333	mg/kg			WG553588 09/04/11 09:0 WG553588 09/04/11 09:0
1	< .333	mg/kg			WG553588 09/04/11 09:0
n-Nitrosodi-n-propylamine		mg/kg			MG223300 03/04/11 03:0

⁻Nitrosodi-n-propylamine < .333 mg/kg * Performance of this Analyte is outside of established criteria. For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Fort Collins, CO 80525

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Quality Assurance Report Level II

L533941

September 13, 2011

Analyte	Result	Laboratory B Units	lank % Rec	Limit B	atch Date Analyzed
n-Nitrosodimethylamine	< .333	ma/ka	3 Nec		G553588 09/04/11 09:08
n-Nitrosodiphenylamine	< .333 < .033	mg/kg		W	G553588 09/04/11 09:08
Naphthalene Nitrobenzene	< .333	mg/kg mg/kg		W	G553588 09/04/11 09:08 G553588 09/04/11 09:08
Pentachlorophenol Phenanthrene	< .333 < .033	mg/kg mg/kq			G553588 09/04/11 09:08 G553588 09/04/11 09:08
Phenol Pyrene	< .333 < .033	mg/kg mg/kg			G553588 09/04/11 09:08 G553588 09/04/11 09:08
2,4,6-Tribromophenol		mg/kg	87.56 82.64	16-136 W	G553588 09/04/11 09:08 G553588 09/04/11 09:08
2-Fluorobiphenyl 2-Fluorophenol		mg/kg mg/kg	70.27	22-114 W	G553588 09/04/11 09:08
Nitrobenzene-d5 Phenol-d5		mg/kg mg/kg	61.30 82.28	26-127 W	G553588 09/04/11 09:08 G553588 09/04/11 09:08
p-Terphenyl-d14		mg/kg	81.48	15-174 W	G553588 09/04/11 09:08
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	< .1	mg/kg % Rec.	93.80		G553535 09/04/11 02:56 G553535 09/04/11 02:56
TPH (GC/FID) High Fraction	< 4	marq			G553867 09/07/11 10:47
o-Terphenyl	<u> </u>	% Rec.	79.97		G553867 09/07/11 10:47
TPH (GC/FID) High Fraction o-Terphenyl	< 4	ppm % Rec.	73.82		G553869 09/07/11 19:19 G553869 09/07/11 19:19
Benzene	< .001	mg/kg	,3.02		G553368 09/03/11 15:47
Ethylbenzene	< .001	mg/kg		W	G553368 09/03/11 15:47
Toluene Total Xylenes	< .005 < .003	mg/kg mg/kg		W	G553368 09/03/11 15:47 G553368 09/03/11 15:47
4-Bromofluorobenzene Dibromofluoromethane		% Rec. % Rec.	103.9 106.7		G553368 09/03/11 15:47 G553368 09/03/11 15:47
Toluene-d8 a,a,a-Trifluorotoluene		% Rec. % Rec.	104.7 113.5		G553368 09/03/11 15:47 G553368 09/03/11 15:47
		Laboratory Contro	ol Sample		
Analyte	Units	Known Val	Result	% Rec L	imit Batch
Benzene Ethylbenzene	mg/1 $mg/1$.025	0.0263 0.0245		7-126 WG553386 6-129 WG553386
Toluene	mg/l	.025	0.0237	94.8 7	2-122 WG553386
Total Xylenes 4-Bromofluorobenzene	mg/l	.075	0.0734	109.2 7	5=128 WG553386 5=128 WG553386
Dibromofluoromethane Toluene-d8				= - :	9-125 WG553386 7-114 WG553386
a,a,a-Trifluorotoluene				105.9 8	4-114 WG553386
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	5,75	6.78		7-135 WG553660 9-128 WG553660
1,2,4-Trichlorobenzene	mg/kg	.333	0.195		8-87 WG553588
2,4,6-Trichlorophenol 2,4-Dichlorophenol	mg/kg mg/kg	.333 .333	0.229 0.226	67.8 5	0-98 WG553588 6-96 WG553588
2,4-Dimethylphenol 2,4-Dinitrophenol	mg/kg mg/kg	.333 .333	0.224 0.205		2=101 WG553588 0-109 WG553588
* Performance of this Analyte is a For additional information, plea				Qualifiers.'	

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L533941

September 13, 2011

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
2,4-Dinitrotoluene	mg/kg	.333	0.230	69.0	54-103	WG553588
2,6-Dinitrotoluene	mg/kg	.333	0.223	66.9	53-99	WG553588
2-Chloronaphthalene	mg/kg	.333	0.202	60.5	55-96	WG553588
2-Chlorophenol	mg/kg	.333	0.203	60.9	52-88	
2-Nitrophenol	mg/kg	.333	0.203	63.6	55-106	WG553588
3,3-Dichlorobenzidine	mg/kg	.333	0.207	62.3	36-84	WG553588
4,6-Dinitro-2-methylphenol	mg/kg	.333	0.234	70.2	24+98	WG553588
4-Bromophenyl-phenylether	mq/kq	.333	0.232	69.6	58-111	WG553588
4-Chloro-3-methylphenol	mg/kg	.333	0.215	64.6	58-98	WG553588
4-Chlorophenyl-phenylether	mg/kg	.333	0.217	65.1	59-103	WG553588
4-Nitrophenol	mg/kg	.333	0.173	52.0	34-101	WG553588
Acenaphthene	mg/kg	.333	0.225	67.6	55-96	WG553588
Acenaphthylene	mg/kg	.333	0.232	69.6	61-107	
Anthracene	mq/kq	.333	0.217	65.2	58-105	WG553588
Benzidine	mg/kg	.333	0.0373	11.2	10-21	WG553588
Benzo (a) anthracene	mq/kq	.333	0.233	69.8	56-103	WG553588
Benzo (a) pyrene	mg/kg	.333	0.226	68.0	57-103	WG553588
Benzo(b)fluoranthene	mg/kg	.333	0.221	66.4	52-106	WG553588
Benzo(g,h,i)perylene	mg/kg	.333	0.233	70.0	47-112	WG553588
Benzo(k)fluoranthene	mg/kg	.333	0.230	69.2	53-104	WG553588
Benzylbutyl phthalate	mg/kg	.333	0.217	65.1	61-118	WG553588
Bis(2-chlorethoxy)methane	mg/kg	.333	0.203	60.8	58-104	
Bis(2-chloroethyl)ether	mg/kg	.333	0.194	58.4	51-103	W G553588
Bis(2-chloroisopropyl)ether	mg/kg	.333	0.213	63.9	56-95	WG553588
Bis(2-ethylhexyl)phthalate	mg/kg	.333	0.220	66.1	56-120	W G553588
Chrysene	mg/kg	.333	0.235	70.€	55-102	WG553588
Di-n-butyl phthalate	mg/kg	.333	0.228	68.4	59-114	WG553588
Di-n-octyl phthalate	mg/kg	.333	0.221	66.4	51-119	WG553588
Dibenz(a,h)anthracene	mg/kg	.333	0.222	66.6	49-111	WG553588
Diethyl phthalate	mg/kg		0.224	67.3	61-105	WG553588
Dimethyl phthalate	mg/kg	.333	0.231	69.5	60-106	WG553588
Fluoranthene	mg/kg	.333	0.241	72.5	59-108	WG553588
Fluorene	mg/kg	.333	0.214	64.3	59-100	WG553588
Hexachloro-1,3-butadiene	mg/kg	.333	0.232	69.6 66.3	53-106	WG553588
Nexachlorobenzene	mg/kg	.333	0.221		50-108	WG553588
Hexachlorocyclopentadiene	mg/kg	.333 .333	0.153 0.204	45.8	36-117 45 - 83	WG553588 WG553588
Hexachloroethane Indeno(1,2,3-cd)pyrene	mg/kg mg/kg	.333	0.204	61.2 67.7	43 - 63 50-110	WG553588
Isophorone	ma/ka	.333	0.159	47.8*	51-99	WG553588
n-Nitrosodi-n-propylamine	mg/kg		0.203	60.9	52-103	WG553588
n-Nitrosodimethylamine	mg/kg	.333	0.189	56.8	31-107	WG553588
n-Nitrosodiphenylamine	mg/kg	.333	0.206	61.8	57-121	WG553588
Naphthalene	mg/kg	.333	0.204	61.3	55-91	WG553588
Nitrobenzene	mg/kg	.333	0.210	63.1	47-92	WG553588
Pentachlorophenol	mg/kg	.333	0.210	63.0	10-89	WG553588
Phenanthrene	mg/kg	.333	0.218	65.4	55-103	WG553588
Phenol	mq/kq	.333	0.189	56.9	49-99	WG553588
Pyrene	mg/kg	.333	0.212	63.7	54-104	WG553588
2,4,6-Tribromophenol				93.19	16-136	WG553588
2-Fluorobiphenyl				80.22	37-119	WG553588
2-Fluorophenol				71.63	22-114	WG553588
Nitrobenzene-d5				_71.55	20-114	WG553588
Phenol-d5				83.74	26-127	WG553588
p-Terphenyl-d14				79.52	15-174	WG553588
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.65	103.	67-135	WG553535
a,a,a-Trifluorotoluene(FID)				99.15	59-128	WG553535

a,a,a-Trifluorotoluene(FID)
 * Performance of this Analyte is outside of established criteria.
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AECOM Inc. - Fort Collins, CO Mr. Dustin Krajewski 1601 Prospect Parkway

Fort Collins, CO 80525

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L533941

September 13, 2011

Analyte	Units		ratory Cont wn Val	rol Sample Result		% Rec	Limit	Batch
	Arthur wards	Andre Street Substitute	_ 3000 - 0300 - 0000	201000 Landah Lada (1)	Artesta disease.	50000 2 2000 - 0000 - 500	88 (8608 - 6888 <u>- 2</u> 882 <u>- 2</u> 803 - 30	P40 04808- 20808
Benzene Ethylbenzene	mg/kg mg/kg	.02		0.0278 0.0298		111. 119.	65-128 74-128	WG553368 WG553368
Toluene	mg/kg	.02		0.0298		115.	70-120	WG553368
Total Xylenes	mq/kq	.07		0.0889		119.	74-127	WG553368
4-Bromofluorobenzene						103.6	59-140	WG553368
Dibromofluoromethane						104.7	63-139	WG553368
Toluene-d8						105.5	84-116	WG553368
a,a,a-Trifluorotoluene						110.6	80-118	WG553368
		Laborator	y Control :	Sample Dupli	icate			
Analyte	Units	Result	Ref	%Rec		Limit	RPD Lim	it Batch
Benzene	mg/l	0.0275	0.0263	110.	1949 Vigo	67-126	4.50 20	WG553386
Ethylbenzene	mq/l	0.0264	0.0245	106.		76-129	7.29 20	WG553386
Toluene	mg/l	0.0250	0.0237	100.		72-122	5.35 20	WG553386
Total Xylenes	mg/l	0.0780	0.0734	104.		75-128	-6.06 20	WG553386
4-Bromofluorobenzene				110.1		75-128		WG553386
Dibromofluoromethane				108.0	.45c a65c	79-125		WG553386
Toluene-d8 a,a,a-Trifluorotoluene				104.1 104.5		87-114 84-114		WG553386 WG553386
a,a,a IIIIIuorocoruene				104.5		04 114		#G333300
TPH (GC/FID) Low Fraction	mg/kg	7.16	6.78	130.		67-135	5.51 20	WG553660
a,a,a-Trifluorotoluene(FID)				102.2		59-128		WG553660
1 O 8 m. 3 1 1 1 1	00000 /4 00s	0.010	0.405	- C C C		- #0 07	41.0	WG553588
1,2,4-Trichlorobenzene 2,4,6-Trichlorophenol	mg/kg mg/kg	0.218	0.195 0.229	66.0 76.0		48-87 50-98	11.0 20 10.2 20	WG553588
2,4-Dichlorophenol	mg/kg	0.234	0.226	71.0		56-96	4.50 20	WG553588
2,4-Dimethylphenol	mg/kg	0.232	0.224	70.0		52-101	3.50 20	WG553588
2,4-Dinitrophenol	mq/kq	0.230	0.205	69.0		10-109	11.4 39	WG553588
2,4-Dinitrotoluene	mg/kg	0.251	0.230	76.0		54-103	9.09 20	WG553588
2,6-Dinitrotoluene	mg/kg	0.248	0.223	74.0		53-99	. 10.0	WG553588
2-Chloronaphthalene	mg/kg	0.224	0.202	67.0		55-96	10.4 20	WG553588
2-Chlorophenol	mg/kg	0.206	0.203	62.0		52-88	1.49 20	WG553588
2-Nitrophenol 3,3-Dichlorobenzidine	mg/kg mg/kg	0.238	0.212 0.207	72.0 67.0		55-106 36-84	11.7 20 7.90 20	WG553588 WG553588
4,6-Dinitro-2-methylphenol	mg/kg	0.241	0.234	72.0		24-98	3.09 32	WG553588
4-Bromophenyl-phenylether	mg/kg	0.253	0.232	76.0		58-111	8.71 20	WG553588
4-Chloro-3-methylphencl	mq/kq	0.229	0.215	69.0		58-98	6.16 20	WG553588
4-Chlorophenyl-phenylether	mg/kg	0.234	0.217	70.0		59-103	7.72 20	WG553588
4-Nitrophenol	mg/kg	0.215	0.173	65.0		34-101	21.8 26	
Acenaphthene	mg/kg	0.240	0.225	72.0		55-96	6.31 20	W G553588
Acenaphthylene	mg/kg	0.241	0.232	72.0		61-107	4.04 20	WG553588
Anthracene	mg/kg	0.243	0.217	73.0		58-105	11.3 20	WG553588
Benzidine Benzo(a)anthracene	mg/kg mg/kg	0.0430 0.248	0.0373 0.233	13.0 74.0		10-21 56-103	14.2 40 6.51 20	WG553588 WG553588
— — man index for the paper of the index	mg/kg	0.246	0.226	71.0		57-103	4.54 20	WG553588
Benzo (b) fluoranthene	mg/kg	0.227	0.221	68.0		52-106	2.73 20	WG553588
Benzo(g,h,i)perylene	mg/kg	0.245	0.233	73.0		47-112	4.80 20	WG553588
Benzo(k)fluoranthene	mg/kg	0.252	0.230	76.0		53-104	9.14 20	WG553588
Benzylbutyl phthalate	mg/kg	0.228	0.217	68.0		61-118	4.97 20	WG553588
Bis (2-chlorethoxy) methane	mg/kg	0.221	0.203	66.0		58-104	8.83 20	WG553588
Bis(2-chloroethyl)ether	mg/kg	0.197	0.194	59.0		51-103	1.39 20	WG553588
Bis(2-chloroisopropyl)ether	mg/kg	0.196	0.213	59.0		56-95	8.28 20	WG553588
Bis (2-ethylhexyl) phthalate Chrysene	mg/kg mg/kg	0.237 0.244	0.220 0.235	71.0 73.0		56-120 55-102	7.54 20 3.58 20	WG553588 WG553588
Di-n-butyl phthalate	mg/kg	0.243	0.228	73.0		59-114	6.69 20	WG553588
			ished crite					

^{*} Performance of this Analyte is outside of established criteria.

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L533941

September 13, 2011

		Laboratory	Control	Sample Dupl	icate					
Analyte	Units	Result	Ref	%Rec		Limit	RPI) Limi	t	Batch
Di-n-octyl phthalate	mg/kg	0.239	0.221	72.0		51-119	7.1	51 22		WG553588
Dibenz(a,h)anthracene	mg/kg	0.232	0.222	70.0		49-111	4.5			WG553588
Diethyl phthalate	mg/kg	0.245	0.224	74.0		61-105	8.			WG553588
Dimethyl phthalate	mg/kg	0.236	0.231	71.0		60-106	1.9	97 20		WG553588
Fluoranthene	mg/kg	0.246	0.241	74.0		59-108	1.	77 20		WG553588
Fluorene	mg/kg	0.237	0.214	71.0		59-100	10	.0 20		WG553588
Hexachloro-1,3-butadiene	mg/kg	0.244	0.232			53-106		0 20		WG553588
Hexachlorobenzene	mg/kg	0.239	0.221	72.0		50-108	7.			W G553588
Hexachlorocyclopentadiene	mg/kg	0.170	0.153	51.0		36-117	10		s	WG553588
Hexachloroethane	mg/kg		0.204	60.0		45-83	1.3			WG553588
Indeno(1,2,3-cd)pyrene	mg/kg	0.239 0.187	0.225 0.159	72.0 56.0		50-110 51-99	5.8 16.			WG553588 WG553588
Isophorone n-Nitrosodi-n-propylamine	mg/kg mg/kg	0.187	0.159	to the four desires and account.		51-99	2.0			WG553588
n-Nitrosodir-n-propyramine n-Nitrosodimethylamine	mg/kg	0.201	0.203	60.0 60.0		31-107	6.2			WG553588
n-Nitrosodimethylamine	mg/kg	0.222	0.206	66.0		57-121	7.3			WG553588
Naphthalene	ma/ka	0.219	0.204	66.0		55-91	6.9			WG553588
Nitrobenzene	mg/kg	0.227	0.210	68.0		47-92	7.6			WG553588
Pentachlorophenol	mg/kg	0.228	0.210	68.0		10-89	8.3			WG553588
Phenanthrene	mg/kg	0.236	0.218	71.0		55-103	8.0)6 20		WG553588
Phenol	mg/kg	0.194	0.189	58.0		49-99	2.2	29 20		WG553588
Pyrene	mg/kg	0.230	0.212	69.0		54-104	8.3	34 20		WG553588
2,4,6-Tribromophenol				95.14		16-136				WG553588
2-Fluorobiphenyl				81.21		37-119				WG553588
2-Fluorophenol				63.93	endonie websie	22-114				WG553588
Nitrobenzene-d5				74.68		20-114				WG553588
Phenol-d5				77.01 81.38		26-127 15-174				WG553588
p-Terphenyl-d14	28. 28.			81.38	A. A.	15-1/4				WG553588
TPH (GC/FID) Low Fraction	mg/kg	5.67	5.65	103.		67-135	0.4	180 20		WG553535
a,a,a-Trifluorotoluene (FID)	mg/ kg	3.07	3.03	97.86		59-128	0.	100 20		WG553535
a, a, a iiiii a ii ii ii a ii a ii a ii	1888 J. 1888 J.									
Benzene	ma/ka	0.0282	0.0278	113.		65-128	1.0	50 20		WG553368
Ethylbenzene	mg/kg	0.0289	0.0298	116.		74-128	2.9	93 20		WG553368
Toluene	mg/kg	0.0285	0.0287	114.		70-120	0.	710 20		WG553368
Total Xylenes	mg/kg	0.0888	0.0889	118.		74-127	0.3	100 20		WG553368
4-Bromofluorobenzene				103.2		59-140				WG553368
Dibromofluoromethane				105.1	Ab Ab	63-139	alte alle alle			WG553368
Toluene-d8				103.9		84-116				WG553368
a,a,a-Trifluorotoluene				112.4		80-118				WG553368
			Matrix S	nika						
Analyte	Units	MS Res	Ref Re		% Rec		Limit	Ref Samp		Batch
								1		
Benzene	mg/1	0.0246	0	.025	98.5		16-158	L533479-03		WG553386
Ethylbenzene	mg/1	0.0239	0	.025	95.8		29-150	L533479-03		WG553386
Toluene	mg/l	0.0234	0	.025	93.5		22-152	L533479-03		WG553386
Total Xylenes	mg/l	0.0707	0	.075	94.2		27-151	L533479-03		WG553386
4-Bromofluorobenzene					107.1		75-128			WG553386
Dibromofluoromethane	3% 45				106.1		79-125 87-114	Jan Jan 184 - A		WG553386
Toluene-d8					104.7 105.9					WG553386
a,a,a-Trifluorotoluene					103.9		84-114			WG553386
TPH (GC/FID) Low Fraction	ma/ka	25.6	O The same of the	5.5	93.2		55-109	L533837-01		WG553660
a,a,a-Trifluorotoluene(FID)	m2, m3.	_ ~~. ~ :	± * ± 1	_ ~- %	96.77		59-128	" === A#		WG553660
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^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Fort Collins, CO 80525

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September 13, 2011

Analyte	Units	MS Res	Matrix ;		% Rec	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	25.5	- 0	5.5	92.7 97.50	55-109 59-128	L533941-01	WG553535 WG553535
Benzene Ethylbenzene Toluene Total Xylenes 4-Bromofluorobenzene Dibromofluoromethane Toluene-d8 a,a,a-Trifluorotoluene	mg/kg mg/kg mg/kg mg/kg	0.113 0.116 0.122 0.361	0 0 0.0054 0.0079		90.7 92.6 93.0 94.2 106.8 107.0 105.4 111.8	16-143 12-137 12-136 10-138 59-140 63-139 84-116 80-118	L533944-02 L533944-02 L533944-02 L533944-02	WG553368 WG553368 WG553368 WG553368 WG553368 WG553368 WG553368
Analyte	Units	Mat MSD	rix Spike Ref	Duplicate %Rec	Limit	RPD I	imit Ref Samp	Batch
Benzene Ethylbenzene Toluene Total Xylenes 4-Bromofluorobenzene Dibromofluoromethane Toluene-d8 a,a,a-Trifluorotoluene	mg/l mg/l mg/l mg/l	0.0267 0.0265 0.0253 0.0783	0.0246 0.0239 0.0234 0.0707	107. 106. 101. 104. 109.0 105.5 104.3 104.2	16-158 29-150 22-152 27-151 75-128 79-125 87-114 84-114	9.99 2 7.96 2	1 L533479-03 4 L533479-03 2 L533479-03 3 L533479-03	WG553386 WG553366 WG553386 WG553386 WG553386 WG553386 WG553386
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	27.3	25.6	99.3 96.51	55-109 59-128	6.42 2	0 L533837-01	WG553660 WG553660
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	21.8	25.5	79. 4 95.91	55-109 59-128	15.4 2	0 L533941-01	WG553535 WG553535
Benzene Ethylbenzene Toluene Total Xylenes 4-Bromofluorobenzene Dibromofluoromethane Toluene-d8 a,a,a-Trifluorotoluene	mg/kg mg/kg mg/kg	0.114 0.121 0.125 0.372	0.113 0.116 0.122 0.361	91.5 96.8 95.3 97.2 107.5 105.1 104.4 110.0	16-143 12-137 12-136 10-138 59-140 63-139 84-116 80-118	4.36 3 2.37 3	1 1533944-02 6 1533944-02 12 1533944-02 6 1533944-02	WG553368 WG553368 WG553368 WG553368 WG553368 WG553368 WG553368

Batch number /Run number / Sample number cross reference

WG553386: R1844072: L533941-10 WG55386: R18440/2: L533941-00
WG55360: R1844212: L533941-08
09
WG553588: R1845992: L533941-04
06
WG553535: R1846273: L533941-01
02
03
04
05
06
07
WG553869: R1847632: L533941-01
02
03
04
05
06
WG553869: R1849498: L533941-07
08
09
WG553368: R1850352: L533941-04
06

- * Calculations are performed prior to rounding of reported values.
 * Performance of this Analyte is outside of established criteria.
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Fort Collins, CO 80525

Quality Assurance Report Level II

L533941

September 13, 2011

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Est. 1970

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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AECOM, Inc.	FCOM Inc			Alternate billing information:					vsis/Co	ontainer/Pres	ervative		Chain of Custody Page of
1601 Prospect Pl	KWV.											Prepared by:	B051
Fort Collins, CO	_											₩ ENVIR	ONMENTAL
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Project EnCana	Pavillion	•	City/Sate Collected	·	NY								15) 758-5858
· · · · · · · · · · · · · · · · · · ·	Client Project		ESC Key:	ENSRFC	CO-ENCA	NAP/							(00) 767-5859 (15) 758-5859
Jereny Huster	Site/Facility ID	WY	P.O.#:	1		1	2060	(8264)					
Collected by (signature):		b MUST Be I ame Day		Date Resul	ts Needed:	No.	660		7			CoCode ENSRF	
Packed on Ice N Y	Ne	ext Day vo Day	. 100%	Email?l		of	孟	STEX	SVOC			Template/Prelogin	
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Cntrs		~				Remarks/Contaminant	Sample # (lab only)
SB-1-11 (TA42x12) (J-8)	Gras	55	(2-8)	8/31/11	1205	1	X						1533941.01
SB-2-11(TP-42x-12/6-0)	Sal	55	8-6	8/3//11	1207	1	Х			1			• •2
SB-3-11(JP-424-12)/6-7)	6005	کد	6.7	<u>बुद्रा</u> ।।	1210	l	y						63
SB-4-11 (TP424-12)(4-5)	600	دی	4-5	8/31/11		3	义	乂	X				oU.
	Grab	22	4-6	8/31/11		1_	Х						6 5
513-1-11(79-12-13) (6-8)	5005	2,2	6-8	131/15/8	14:50	3	Х	X	Λ.				AL.
	500 b	55	7-8	8(31/11	1405		X						n
	5,00>	55	7-10		1345	1	X						A
	Sms	5>	7.5-16.5	8/31/11	1525	(X.		1222				07
*Matrix: \$\$ - Soil/Solid GW - Groun Remarks:	らいの dwater WW .	₩Ţ - WasteWater	DW - Drink	ار د/گ cing Water C	<i>○8∂∂</i> OT - Other	(丧	4	163 '	459147		Te	
	D-4-		1						Samn	oles returned v	Flow		her
Relinquished by: (Signature)	Date:	/// // // // // // // // // // // // //		ed by: (Signa	ature)			_	Fed	dEx Courie	er 🗆	Condition:	(lab use only)
Refinquished by: (Signature)	Receiv	red by: (Signa	/	\bigcap			Temp: Bottles Receiv			red: COCSI			
Relinquished by: (Signature)	Date:	Time:	Recei	ved for lab b	Signatur	e)			Date		ime; <i>0</i> 700	pH Checked:	NCF: